09/23/2009

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NOTICE OF ALLOWANCE AND FEE(S) DUE

23373 7590

SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800

WASHINGTON, DC 20037

EXAMINER					
HITESHEW, FELISA CARLA					
ART UNIT	PAPER NUMBER				

1792 DATE MAILED: 09/23/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,750	01/17/2006	Masahiko Ishida	Q92709	1790

TITLE OF INVENTION: METHOD FOR FIXING METAL PARTICLES AND METHOD FOR MANUFACTURING SUBSTRATE CONTAINING METAL PARTICLES, METHOD FOR MANUFACTURING SUBSTRATE CONTAINING CARBON NANOTUBE, AND METHOD FOR MANUFACTURING SUBSTRATE CONTAINING SEMICONDUCTOR-CRYSTALLINE ROD, EMPLOYING THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/23/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

appropriate. All further correspondence including the Patent, advance orders and notifical indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a nemaintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				ion of maintenance fees will be mailed to the current correspondence address as we correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must			
23373 7590 09/23/2009 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800			pa _l ha	pers. Each addition ve its own certificat	al paper e of ma	, such as an assignme lling or transmission.	nt or formal drawing, must
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WASHINGTON	N, DC 20037						(Depositor's name)
							(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/564,750	01/17/2006	•	Masahiko Ishida			Q92709	1790
METAL PARTICLES,	METHOD FOR M.	ANUFACTURING SU	LES AND METHOD F BSTRATE CONTAININ R-CRYSTALLINE ROD	NG CARBON N	ANOTU	JBE, AND METHO	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	12/23/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
HITESHEW, F	ELISA CARLA	1792	117-095000	-			
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON 			or agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent att listed, no name will b	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. E PATENT (print or type)			
recordation as set fort (A) NAME OF ASSI	h in 37 CFR 3.11.Comp GNEE	oletion of this form is NC	T a substitute for filing an	assignment. Y and STATE OR	COUNT	TRY)	ocument has been filed for
Please check the appropr	rate assignee category or	categories (will not be p	rinted on the patent):	Individual 🖵 C	orporati	on or other private gro	oup entity Government
☐ Issue Fee☐ Publication Fee (No small entity discount permitted)			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				
Advance Order -	# of Copies		The Director is hereboverpayment, to Dep	oy authorized to cha oosit Account Numb	rge the er	required fee(s), any de (enclose a	ficiency, or credit any n extra copy of this form).
5. Change in Entity Sta	itus (from status indicated as SMALL ENTITY statu	,	☐ b. Applicant is no lo	nger claiming SMA	LL EN	ГІТҮ status. See 37 СІ	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademarl	ed from anyone other than k Office.	the applicant; a reg	istered	attorney or agent; or th	e assignee or other party in
Authorized Signature				Date			
Typed or printed name				-			
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	CFR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will var rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or 1.14. This collection is e y depending upon the indi he Chief Information Offic COMPLETED FORMS	retain a benefit by stimated to take 12 tvidual case. Any c cer, U.S. Patent and TO THIS ADDRES	the pub minutes omment Traden S. SEN	lic which is to file (ance to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner	by the USPTO to process) g gathering, preparing, and ne you require to complete urtment of Commerce, P.O. for Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/564,750	01/17/2006	Masahiko Ishida	Q92709	1790
23373 7:	590 09/23/2009		EXAM	INER
SUGHRUE MION, PLLC			HITESHEW, FI	ELISA CARLA
	ANIA AVENUE, N.W	•	ART UNIT	PAPER NUMBER
SUITE 800 WASHINGTON, DC 20037			1792 DATE MAILED: 09/23/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 527 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 527 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
Notice of Allowability	10/564,750 Examiner	ISHIDA ET AL. Art Unit			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	LXammer	Artonic			
	Felisa C. Hiteshew	1792			
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commits (IGHTS). This application is	n this application. If not include unication will be mailed in due o	d ourse. THIS		
1. This communication is responsive to 7/8/2009.					
2. The allowed claim(s) is/are <u>3-33</u> .					
 3. Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Note that the priority have 3. Note the priority have 3. Note the priority documents h	e been received. e been received in Applicati	on No	on from the		
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requ	uirements		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w (PTO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			ote the		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 ☐ Notice of I	nformal Patent Application			
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),			
· · · · · · · · · · · · · · · · · · ·	Paper No.	/Mail Date			
3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>See Continuation Sheet</u>	7. ☐ Examiner's	Amendment/Comment			
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 8. ☑ Examiner's Statement of Reasons for Allowance					
	9. 🗌 Other	<u>_</u> '			
/Felisa C. Hiteshew/					
Primary Examiner, Art Unit 1792					

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 1/17/2006 & 8/16/2006.

DETAILED ACTION

Information Disclosure Statement

The PTOL 1449s of 1/17/2006 & 8/16/2006 have been received, reviewed and considered.

Response to Arguments

1. Applicant's arguments see the remarks, filed 07/08/2009, with respect to claims 3-11 and 24-25 have been fully considered and are persuasive. The 35 USC 102(b) final rejection of 04/08/2009 has been withdrawn.

Allowable Subject Matter

2. Claims 3-33 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art of record does not teach nor fairly suggest singularly or in any combination thereof A method for fixing a metal particle, including forming a resist film containing a resin component and a metal-containing particle on a substrate; and removing said resin component in said resist film and fixing a metal particle on said substrate, said metal particle including a metallic element that composes said metal-containing particle, wherein said metal-containing particle is a metallic compound~ wherein said metal particle is one per independent pattern, and wherein said method further includes heating said resist film to a temperature of 300 degree C or higher and 1,200 degree C or lower within a vacuum, after said forming the resist film and before said removing said resin component and fixing said metal particle, as stated in the instant invention.

Application/Control Number: 10/564,750 Page 3

Art Unit: 1792

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Felisa Hiteshew whose telephone number is (571) 272-1463. The examiner can normally be reached on Mondays through Thursday from 5:30 AM to 4:00 PM with Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mikhail Kornakov, can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-1463.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system. see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866- 217-9197 (toll-free).

/Felisa C. Hiteshew/ Primary Examiner, Art Unit 1792